

NanoBoard Installation (for MacOS)

Installation of NanoBoard for MacOS consists of two steps. First OpenSource LibUsb for MacOS is installed. Secondly the NanoBoard example applications and documentation is installed.

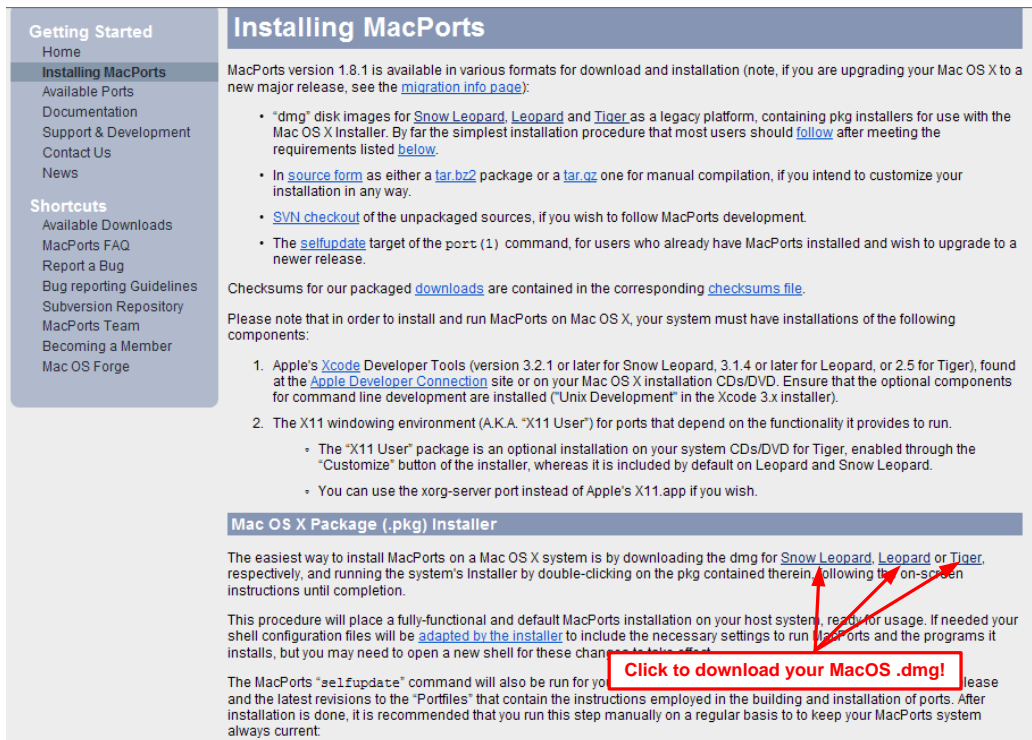
Step 1: LibUsb Installation

LibUSB 0.1.12 must be first installed under MacOS. The simplest way to achieve this is to make use of the installation already included in MacPorts.

First visit the MacPorts installation page:

<http://www.macports.org/install.php>

Download the MacPorts installation for your version of MacOS by selecting Snow Leopard, Leopard or Tiger. A .dmg file will be downloaded (it will be called something like `MacPorts-1.8.1-10.6-SnowLeopard.dmg`).



Installing MacPorts

MacPorts version 1.8.1 is available in various formats for download and installation (note, if you are upgrading your Mac OS X to a new major release, see the [migration info page](#)):

- "dmg" disk images for [Snow Leopard](#), [Leopard](#) and [Tiger](#) as a legacy platform, containing pkg installers for use with the Mac OS X Installer. By far the simplest installation procedure that most users should [follow](#) after meeting the requirements listed [below](#).
- In [source form](#) as either a [tar.bz2](#) package or a [tar.gz](#) one for manual compilation, if you intend to customize your installation in any way.
- [SVN checkout](#) of the unpackaged sources, if you wish to follow MacPorts development.
- The [selfupdate](#) target of the `port (1)` command, for users who already have MacPorts installed and wish to upgrade to a newer release.

Checksums for our packaged [downloads](#) are contained in the corresponding [checksums file](#).

Please note that in order to install and run MacPorts on Mac OS X, your system must have installations of the following components:

1. Apple's [Xcode](#) Developer Tools (version 3.2.1 or later for Snow Leopard, 3.1.4 or later for Leopard, or 2.5 for Tiger), found at the [Apple Developer Connection](#) site or on your Mac OS X installation CDs/DVD. Ensure that the optional components for command line development are installed ("Unix Development" in the Xcode 3.x installer).
2. The X11 windowing environment (A.K.A. "X11 User") for ports that depend on the functionality it provides to run.
 - The "X11 User" package is an optional installation on your system CDs/DVD for Tiger, enabled through the "Customize" button of the installer, whereas it is included by default on Leopard and Snow Leopard.
 - You can use the `xorg-server` port instead of Apple's `X11.app` if you wish.

Mac OS X Package (.pkg) Installer

The easiest way to install MacPorts on a Mac OS X system is by downloading the dmg for [Snow Leopard](#), [Leopard](#) or [Tiger](#), respectively, and running the system's Installer by double-clicking on the pkg contained therein, following the on-screen instructions until completion.

This procedure will place a fully-functional and default MacPorts installation on your host system, ready for usage. If needed your shell configuration files will be [adapted by the installer](#) to include the necessary settings to run MacPorts and the programs it installs, but you may need to open a new shell for these changes to take effect.

The MacPorts `selfupdate` command will also be run for you. Please note that this step will download the latest release and the latest revisions to the "Portfiles" that contain the instructions employed in the building and installation of ports. After installation is done, it is recommended that you run this step manually on a regular basis to keep your MacPorts system always current.

Click to download your MacOS .dmg!



Double click on the downloaded file to mount it and execute the package file (.pkg) to install it.

In a command tool install version 0.1.12 of LibUsb using the following command:

```
⌘ sudo port install libusb-legacy
```

At this point you should have installed LibUsb for MacOS and you are ready to install the NanoBoard examples and documentation.



Step 2: NanoBoard Examples and Documentation Installation

a) Documents and the example applications are all contained in NanoBoard_Installation_1.0.2.tar.gz. Untar this in some suitable place.

```
macos %> tar xvfz NanoBoard_Installation_1.0.2.tar.gz
```

b) Move to the created directory.

```
macos %> cd NanoBoard_Installation_1.0.2
```

c) You will see the following documents to read:

- Readme.pdf**
- NanoBoardUserGuide_ver_Apr12.pdf**
- NanoBoardAPI_ver_Apr12.pdf**
- NanoBoardApplicationExamples_ver_Apr12.pdf**

d) You will find the application examples in the Examples/ directory. Read **NanoBoardApplicationExamples_ver_Apr12.pdf** to learn about running these. The file structure should appear as below.

